Abstract

Polyisobutenylphenol-containing Mannich adducts are prepared by

- a) alkylation of a phenol with highly reactive polyisobutene having a number average molecular weight of less than 1000 and a polydispersity of less than 3.0, at below about 50°C in the presence of an alkylation catalyst;
- b) reaction of the reaction product from a) with
- bl) an aldehyde chosen from formaldehyde, an oligomer and a polymer of formaldehyde and
- b2) at least one amine which has at least one primary or one secondary amino function
- and are used as detergent additives in fuel and lubricant compositions, and additive concentrates, fuel compositions and lubricant compositions contain these Mannich adducts.

25

10

15

30

35

40

45